ARM Radars Scans Strategy
Scan Nomenclature

- **PPI**: Plan position indicator
- **RHI**: Range height indicator
- **VPT**: Vertically pointing profile
- **CRCAL**: Corner reflector calibration profile
Scan Nomenclature

- **HSRHI**: Horizon-to-horizon range height indicator
- **BLRHI**: Boundary layer range height indicator
- **CWRHI**: Cross-wind range height indicator
- **AWRHI**: Along-wind range height indicator
SACR first generation scan strategy

- The profile integration time is set to sample at the beam-width of the antenna
- Cloud surveillance scans every 30 minutes: low level PPI sweep at 2 degree elevation and HSRHI scan
- The wind directions is preliminarily selected based on the climatology of the site
- Routine corner reflector calibration scan is planned and will become part of the scan pattern once the calibration procedure is verified
- Data files stored in one cycle (2 hours):
  1) PPI : 4 files
  2) HSRHI : 4 files
  3) CWRHI : 2 files
  4) ALRHI : 2 files
  5) VPT : 1 file
  6) BLRHI : 4 files
C-SAPR first generation scan strategy

10 minutes

- PPI: Bird bath; 360 degree sweeps at zenith
- RHI: Range height indicator; sweeps over KAZR
- PPI: Plan position indicator

- The profile integration time is set to sample at the beam-width of the antenna
- Data files stored in one cycle (10 minutes):
  1) VPT (Bird bath): 1 file
  2) RHI: 3 sweeps over KAZR, 1 file
  3) PPI: 17 tilts, 1 file
X-SAPR first generation scan strategy: non-targeted scanning

10 minutes

- **PPI:** Bird bath; 360 degree sweeps at zenith
- **HSRHI:** Horizon-to-horizon range height indicator; sweeps over KAZR
- **PPI:** Plan position indicator

- The profile integration time is set to sample at the beam-width of the antenna
- Data files stored in one cycle (10 minutes):
  1) VPT (Bird bath): 1 file
  2) HSRHI: sweeps over KAZR, 1 file
  3) PPI: 23 tilts, 1 file